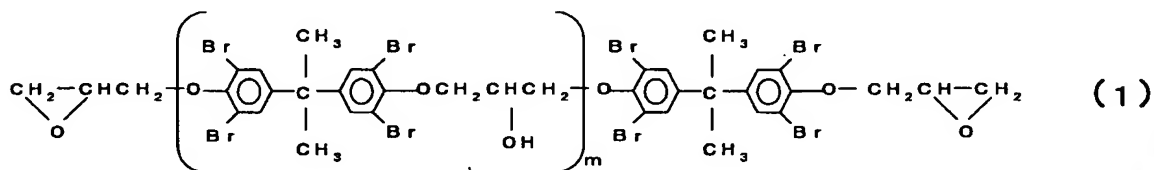


CLAIMS

1. A flame retardant polyester fiber for artificial hair, formed from 100 parts by weight of (A) a polyester made of one or more of polyalkylene terephthalate or a copolymer polyester comprising polyalkylene terephthalate as a main component, 5 to 30 parts by weight of (B) a brominated epoxy based flame retardant and 0.05 to 1 parts by weight of (C) a reaction accelerator.

2. The flame retardant polyester fiber for artificial hair according to claim 1, wherein the component (A) is at least one polymer selected from the group consisting of polyethylene terephthalate, polypropylene terephthalate and polybutylene terephthalate.

3. The flame retardant polyester fiber for artificial hair according to claim 1 or 2, wherein the component (B) is a flame retardant represented by the following general formula (1),



15 wherein m represents 0 to 100.

4. The flame retardant polyester fiber for artificial hair according to any of claims 1 to 3, wherein the component (C) is metal salt of organic carboxylic acid having 6 to 32 carbon atoms and/or a phosphite based compound.

5. The flame retardant polyester fiber for artificial hair according to any of claims 1 to 4, wherein the flame retardant polyester fiber is formed by air-cooling melt spinning process.

6. The flame retardant polyester fiber according to any of claims 1 to 5,
5 which has a monofilament size of 10 to 80 dtex.